

WE CLAIM

1. A method of creating mechanical functional designs  
of textiles and clothing using a computer and visual  
display monitor controlled by the computer, the method  
5 comprising supplying the computer with information from  
databases relating to biomechanical and structural  
characteristics of a human body and structural and  
mechanical characteristics of chosen textile materials  
10 for computational simulation of the information, and  
creating visual images for the monitor showing modules  
of structural functional designs.

2. The method according to claim 1, in which the  
15 database of the human body comprises human model data  
for specific body functions, including size and shape.

3. The method according to claim 1, in which the  
database of the garments comprises clothing patterns  
20 data and product specification data.

4. The method according to claim 1, in which the  
database of the human body comprises mechanical property  
data, including clothing biomechanical and mechanical  
25 comfort data.

5. The method according to claim 1, in which the  
database of the textile materials comprises structural

and mechanical property data, including fibres, yarns, fabrics and garments.